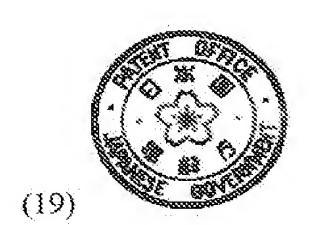
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(11) Publication number:

Generated Document.

PATENT ABSTRACTS OF JAPAN

(21) Application number: 06065235

(51) Intl. Cl.: C07H 19/06 A61K 31/70

C07D473/00 C07H 1/00 (

(22) Application date: 01.04.94

(30) Priority:

(43) Date of application

publication:

24.10.95

(84) Designated contracting states:

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(54) 2'-SUBSTITUTED-2',3'-DIDEHYDRO-2',3'-DIDEOXYNUCLEOSIDE AND ITS PRODUCTION

(57) Abstract:

PURPOSE: To provide a new compound useful as an intermediate for stably supplying a large amount of a compound having various physiological activities including antiviral activity such as anti-AIDS virus activity and also expected to have antiviral activity, etc., by itself.

CONSTITUTION: This compound is expressed by formula I (R1 is a hydroxylprotecting group; R2 is an alkyl, an aryl, etc.; B is a nucleic acid base; X is S or Se), e.g. 1-[5-0-(t-butyldiphenylsilyl)2,3-dideoxy-2-phenylsulfonyl-β-D- glycero-pent-2-enofuranosyl]uracil. The compound can be produced by reacting a 2',2'-dideoxynucleoside derivative of formula II with an oxidizing agent (preferably m-chloroperbenzoic acid), subjecting the reaction product to thermal dissociation reaction by refluxing the product preferably in a

hydrocarbon solvent or an ether solvent in the presence of tri(n-butyl) amine and oxidizing the obtained new 2'-substituted nucleoside derivative of formula III.

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